What is claimed is:

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1. A method of manufacturing a CRT comprising the steps of:

-providing an envelope with an interior surface and an exterior surface, said envelope including a faceplate having a luminescent screen on said interior surface thereof, a neck for supporting an electron gun, a funnel connecting said neck and said faceplate;

-flowcoating a flowcoating formulation on a portion of said interior surface of said funnel and on an interior portion of said neck, said flowcoating formulation comprises metal oxide, graphite, a silicate, a copolymer, surfactant and water;

-drying said flowcoating formulation on said portion of said interior surface of said funnel and on said interior portion of said neck, thereby forming a conductive coating; and

- -sealing a mount containing said electron gun to said neck, said electron gun having an anode in electrical contact with said conductive coating.
 - 2. The method of claim 1, wherein the copolymer is a maleic copolymer.
- The method of claim 1, wherein the metal oxide is iron oxide or titanium dioxide.
 - 4. The method of claim 1, wherein the copolymer is at 1-5 weight percent and the metal oxide at 9-22 weight percent.
 - 5. The method of claim 4, wherein the copolymer is a maleic copolymer.
 - 6. The method of claim 4, wherein the metal oxide is iron oxide or titanium dioxide.
 - 7. The method of claim 1, wherein the flowcoating formulation is formed by diluting a concentrated formulation including the following components:

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the graphite at 4-7 wt. %; iron oxide as the metal oxide being at 9-22 wt. %; maleic copolymer at the copolymer at 1-5 wt. %; caustic material at 1-6 wt. %; potassium silicate as the silicate at 27-46 wt. %; the surfactant at 1-5 wt. %; and water at 20-54 wt. %.

- 8. The method of claim 7, wherein the flowcoating formulation was formed by diluting the concentrated formulation such that the concentration of non-aqueous component is 5 to 30 % less than that of the concentrated formulations.
 - 9. A formulation for flowcoating comprising metal oxide, graphite, a silicate, a copolymer, surfactant and water.
 - 10. The formulation in claim 9, wherein the formulation is a dispersion in concentrated form comprising

graphite at 4-7 wt. %; metal oxide at 9-22 wt. %; copolymer at 1-5 wt. %;

caustic material at 1-6 wt. %; silicate at 27-46 wt. %; surfactant at 1-5 wt. %; and water at 20-54 wt. %;

25 or a dispersion in diluted form comprising

graphite at 2.8-6.65 wt. %, metal oxide at 6.3-20.9 wt. %, copolymer at 0.7-4.75 wt. %, caustic material at 0.7-5.7 wt. %, silicate at 18.9-43.7 wt. %,

surfactant at 0.35-4.75 wt. %, and water at 21-70.2 wt. %.